Abstract--- This Research work is mainly deals about the Minimization of search options in a search engine. In general the keyword searched in any search engine gets some millions of results in microseconds. The output is obtained by analyzing and processing a bulk data, thereby obtaining all relative or most searched sites and web pages. But here we put forth an idea for getting the fixed and efficient result in a short duration of time. The keyword searched in the search box gets the top 5 related sites per page through which the user can obtain the exact and efficient output. By this method of searching the search time for user and searching load for system and the server, both gets reduced which results in the effective usage of search engine.

Keywords--- Search engine, crawling, spiders, building an index, API key, ranking factors.

I. INTRODUCTION

The frequently used search engine “Google” returns a bulk data even for a small search keyword typed. The returned data may or may not be required by the users totally. It causes great dissatisfaction if not required. So, this work introduced a new search engine “Searchin” which is a modified version of Google. This new search engine gets the top most 5 results which are very much related and efficient to the users. There by reducing the search time. It is the modification of search engine API key.

II. METHODOLOGY:

For optimizing or minimizing of search options we are going to use the search engine API key in our Research work. As we know that the best and fastest search engine in world is “GOOGLE”, we need to modify the source code for optimization in a way that the top 5 results are displayed. For modification firstly we need to understand the search engine, that how it works, ranking factors.

III. WORKING OF SEARCHIN ENGINE:

Search engines mainly perform two functions namely crawling and building an index. The term crawling is used because the search engine while searching crawls each and every part of the web server and finds manybillions of interconnected documents on the web. The interconnected documents are analyzed and best results are found. To complete these tasks searchengines have constructed database centers all over the world. These database centers hold thousands of machines processing large quantity of data very quickly. Whenever we search anything in the search engine, we expect it to get the results as fast as possible, even a small delay causes great dissatisfaction. So, these engines work hard to obtain result as fast as possible. Whenever a keyword is searched the searchengine searches in two major ways and obtain the result i.e., the most visited and the most relevant, based on their previous searches and displays all in an order depending on their priority from first to last.

Fig 1:

When a person performs an online search, the search engine find its billions of documents and does two things: first, it returns only those results that are relevant or useful to the searcher’s query; second, it ranks those results according to the popularity of the websites serving the information. It is both relevance and popularity that the process of SEO is meant to influence. How do search engines determine relevance and popularity? To a search engine, relevance means more than finding a page with the right words. In the early days of the web, search engines didn’t go much further than this simplistic step,
The ranking algorithm checks your search query against billions of pages to determine how relevant each one is. This operation is so complex that companies closely guard their own ranking algorithms as patented industry secrets. Exploiting the ranking algorithm has in fact been common since search engines began, but in the last 3 years or so Google has really made that difficult. Originally, sites were ranked based on how many times a particular keyword was mentioned. This led to “keyword stuffing”, where pages are filled with mostly nonsense so long as it includes the keyword everywhere.

Then the concept of importance based on linking was introduced more popular sites would be more linked to, obviously – but this led to a proliferation of spammed links all over the web. Now each link is determined to have a different value, depending on the “authority” of the site in question. If a high-level government agency links to you, it’s worth far more than a link found in a free-for-all “link directory”.

IV. RANKING FACTORS:

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V. EXPERIMENTAL RESULT

The Influence of Ranking Factors in Google’s Algorithm

Search Engine Ranking Factors Experts Survey

<table>
<thead>
<tr>
<th>Ranking Factor</th>
<th>Influence Rating</th>
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</thead>
<tbody>
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<td>Domain-Level Link Features</td>
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<tr>
<td>Page-Level Link Features</td>
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<tr>
<td>Domain-Level Brand Metrics</td>
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<tr>
<td>Domain-Level Keyword Usage</td>
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<td>4.96 / 10</td>
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<tr>
<td>Domain-Level Social Metrics</td>
<td>4.96 / 10</td>
</tr>
</tbody>
</table>

VI. CONCLUSION AND FUTURE SCOPE

On analyzing the working and ranking results of search engine we create a new search engine named as “Searchin” which function as google because we used google API key with slight modification as we want.
A. **Smart searchin engine**

The results come out by searching a keyword is based on ranking factors; cache stored in system and recently viewed pages. By this Searchin we can access data as fast as (exactly 10 times faster than Google). Based on the observation the following benefits has been achieved by our smart searching techniques Faster than Google in some aspect, Google filters are also accepted. Time consumption on searching is optimized compared to any other search engines, Results per page is five which allow the user to find best one. Data consumption is less, Algorithm is easy to design.

However this technique is going to find most relevant result with minimum time and data consumption. In future this searching techniques will be implemented in regional languages.

**REFERENCES**


